



Piper Aircraft Corporation
Vero Beach, Florida, U.S.A.

SERVICE

No. 1001

LETTER

Date: December 9, 1987 S

SUBJECT:

Engine Mount
Inspection/Modification

MODELS AFFECTED:

PA-46-310P Malibu

SERIAL NUMBERS AFFECTED:

46-8408001 through 46-8608067
4608001 through 4608094

COMPLIANCE TIME:

At the next regularly scheduled maintenance event,
or at owner/operator's discretion.

PURPOSE:

Field reports have been received and examination
of one returned engine mount revealed cracking at the cluster weld near the
righthand nose landing gear mount point.

This Service Letter provides an illustration and the instructions necessary for
inspection, repair and modification which, when accomplished will help prevent
the above described condition.

APPROVAL:

The technical contents of this Service Letter have
been approved by the F.A.A.

INSTRUCTIONS:

NOTE: Refer to the PA-46-310P Malibu Maintenance Manual for specific
servicing information.

1. Place aircraft on jacks.
2. Remove engine cowl.
3. Remove righthand turbocharger.
4. Remove engine airbox.
5. Remove nose landing gear assembly.
6. Remove clamps and ties as required to position wire harnesses and hoses
clear of work area.
7. Attach a suitable hoist to engine and relieve loading on the engine mount
prior to any welding.
8. Visually inspect engine mount for cracking at area indicated using a dye
penetrant procedure. Refer to Sketch 'A' Figure 1 attached.
9. If cracking is indicated, clean affected area and repair by TIG welding.

(Over)
ATA: 7121

10. After inspection and/or repair, locate and TIG weld in place along two (2) sides, one (1) each gusset, Piper Part Number 84010-48. Refer to Sketch 'A', Figure 2.

NOTE: Gusset may be fabricated from .062" 4130N steel. Refer to Sketch 'A', Figure 3 for dimensions.

11. Clean, prime and paint reinforced area.
12. Reposition and secure wire harnesses and hoses removed by Instruction 6 above.
13. Reinstall nose landing gear assembly.
14. Reinstall engine airbox assembly.
15. Reinstall righthand turbocharger.
16. Perform a gear function check.
17. Recowl engine.
18. Remove aircraft from jacks.
19. Ground run aircraft.
20. Make appropriate logbook entry of compliance with this Service Letter.

MATERIAL REQUIRED: One (1) each gusset, Piper Part Number 84010-48, per aircraft.

AVAILABILITY OF PARTS: Your Piper Field Service Facility.

EFFECTIVITY DATE: This Service Letter is effective upon receipt.

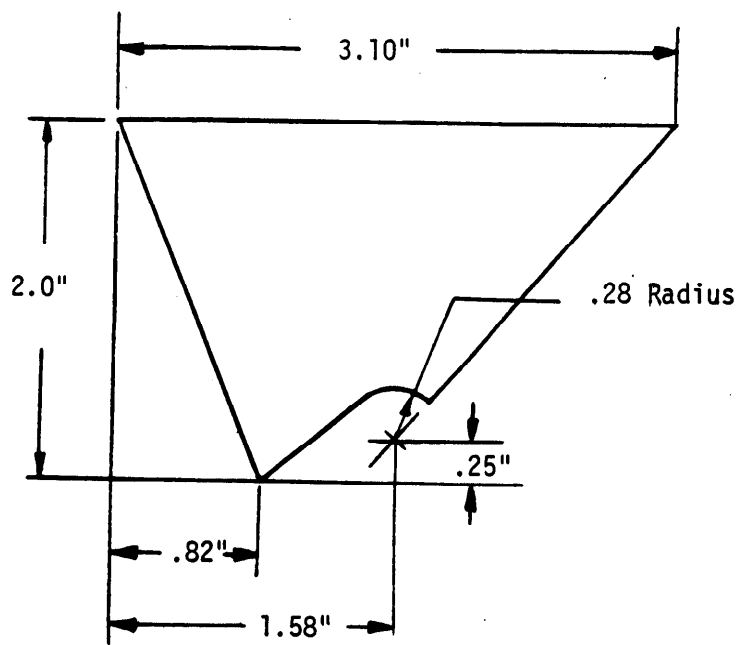
SUMMARY: Any applicable Factory Participation will remain in effect for a period of time not to exceed 180 days from the date of this Service Letter.

Please contact your Factory Authorized Piper Field Service Facility to make arrangements for compliance with this Service Letter in accordance with the Compliance Time indicated, and to obtain information concerning any applicable Factory Participation.

NOTE: If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and notify the Factory of address/ownership corrections. Changes should include aircraft model, serial number, current owner's name and address.

Corrections/Changes should be directed to:

Piper Aircraft Corporation
Attn: Customer Services
P.O. Box 1328
Vero Beach, FL 32961-1328



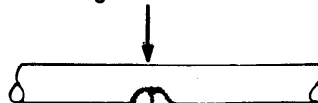
P/N 84010-48 Gusset May Be Fabricated
From .062" 4130N Steel

Figure 3



AFT

Engine Mount



Area To Be
Inspected For
Possible Cracks

Nose Landing Gear
Mount Points

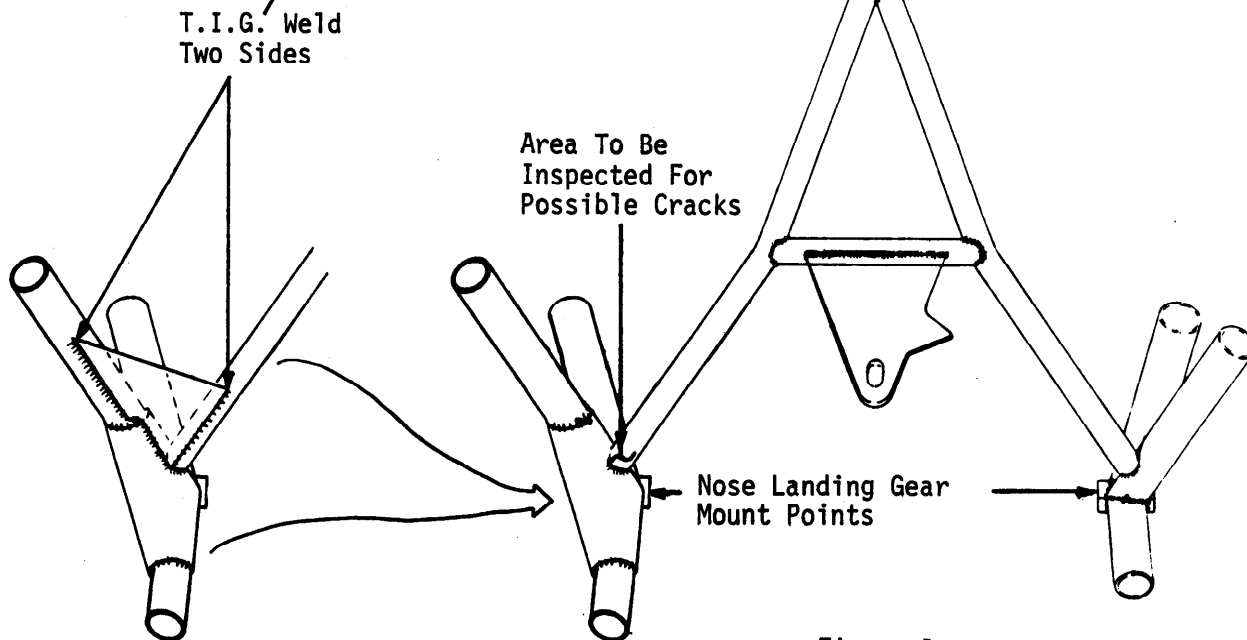


Figure 2

Figure 1

SKETCH "A"